

JOINT MAJOR IN MOLECULAR BIOLOGY & BIOCHEMISTRY AND COMPUTING SCIENCE FALL 2022 GRADUATION PLANNER

	Name:	Studen	t ID <u>:</u>	Date:
PROGRAM REQUIREMENT OVERVIEW A minimum of 128 units are required to complete the Bachelor of Science (BSc) for the joint major in Molecular Biology and Biochemistry and Computing Science Program. This consists of:				
CMPT/MACM/MATH/ STAT(33 - STAT) STAT		ctive courses (1 - Units	B (12-15 units)	Minimum 125
LOWER DIVISION REQUIREMENTS (100/200) - 68 - 72 units - Complete all of:				
COMPUTING SCIENCE & SCIENCE				
□ BISC 101	□ CHEM 281	□ CMPT 276	□ MATH 152	□ MBB 231
□ BISC 102	☐ CHEM 282 OR 283	□ CMPT 295	☐ MATH 232 OR 240	□ MBB 222
□ BISC 202	☐ CMPT 120 or CMPT 130*	□ MACM 101	□ STAT 270 or STAT 271**	
□ CHEM 121	☐ CMPT 125 or CMPT 135*	☐ MACM 201 or CMPT 210**	□ PHYS 101 or 120 or 125 or 140	
☐ CHEM 122	□ CMPT 225	☐ MATH 150 OR 151	□ PHYS 102 or 121 or 126 or 141	
* Students should complete the set of CMPT 120 + 125 or the set of CMPT 130 +135 **Either (CMPT 210 and STAT 271) as a set or (MACM 201 and STAT 270) as a set.				
UPPER DIVISION REQUIREMENTS (300/400) – 45 units: WQB REQUIREMENTS:				
ALL (27 units) AT LEAST THREE (9 units) AT LEAST TWO (6 units) REQUIRED BREADTH				
□ CMPT 307	☐ CMPT 413	□ CMPT 305	□ B-SC	oc
□ CMPT 354 □ CMPT 419		☐ CMPT 310	CMPT 310	
□ CMPT 405 □ CMPT 454		☐ CMPT 340	□ B-SOC	
☐ CMPT 441	☐ MBB 438	☐ CMPT 361	□ B-HU	JM
□ MBB 308	│	☐ MACM 316	□ B-HU	JM
□ MBB 331	☐ MBB 460	☐ MBB 321		
□ MBB 342	☐ MBB 461			REQUIRED WRITING
□ STAT 302 □ MBB 462		UPPER DIVISION ELECTIVE (1-2 units)		T 105W OR
□ CMPT 376W or MBB 309W □ MBB 463		□ ANY 3XX/4XX		LOWER DIVISION W-COURSE
	☐ MBB 464			
OPTIONAL REQUIREMENTS:				
COMPUTING SCIENCE AND/OR MOLECULAR BIOLOGY & BIOCHEMISTRY CO-OP EDUCATION				
□ CMPT 426 OR MBB 151 □ CMPT 427 OR MBB 251 □ CMPT 428 OR MBB 351 □ CMPT 429 OR MBB 451 □ CMPT 430 OR MBB 452				
SUMMARY OF REQUIREMENTS:				
Requirement		Complete In Progr	ress Total	Remaining
Total Units (Minimum 125)				
Upper Division Units (45)				



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ACADEMIC REQUIREMENTS

LOWER DIVISION REQUIREMENTS (or equivalents):

- WQB requirements: Students are required to complete 6 units of writing (W), 6 units of Breadth Science (B-Sci), 6 units of Breadth Social Science (B-Sco), 6 units of Breadth Humanities (B-Hum) and 6 units of Undesignated Breadth (UB).
- Students in the Molecular Biology and Biochemistry and Computing Science joint major automatically fill most of the WQB requirements with the exception of the lower division W course, 6 units of Breadth Social Science and 6 units of Breadth Humanities.
- Students should complete the set of CMPT 120 + CMPT 125 or the set of CMPT 130 + CMPT 135
- Students are to advise taking either (CMPT 210 and STAT 271) as a set or (MACM 201 and STAT 270) as a set.

UPPER DIVISION REQUIREMENTS:

- Students must complete at least 45 upper division credits, which include:
 - All of the following: CMPT 307, CMPT 354, CMPT 405, CMPT 441, MBB 308, MBB 331, MBB 342 and STAT 302
 - Two of the following: CMPT 305, CMPT 310, CMPT 340, CMPT 361, MACM 316 or MBB 321
 - Three of the following: CMPT 413, CMPT 419, CMPT 454, MBB 438, MBB 441, MBB 460, MBB 461, MBB 462, MBB 463, MBB 464
 - Writing requirement: CMPT 376W or MBB 309W are required to satisfy UD W requirements. Note: CMPT 376W requires CMPT 105W as a prerequisite.

ELECTIVE COURSES

Students will have room to take additional elective credits in order to complete the credits required for graduation.

FACULTY OF APPLIED SCIENCE RESIDENCY REQUIREMENTS

At least two thirds of the total Upper Division (UD) units in the program must have been completed at Simon Fraser University. Please refer to current SFU calendar for details.

WQB REQUIREMENTS

Students need to complete:

- One Lower Division (LD) Writing Course (CMPT 105W or other lower W course if planning on completing MBB 309W)
- One Upper Division (UD) Writing Course (CMPT 376W or MBB 309W)
- 6 units of Breadth Science (B-Sci): Fulfilled by MACM 101 and BISC 101
- 6 units of Breadth Social (B-Soc)
- 6 units of Breadth Humanities (B-Hum)
- 6 units of Undesignated Breadth (UB) (Math 150/151 and Math 152)

Please refer to: http://www.sfu.ca/ugcr/for_students/wqb requirements/breadth.html for courses that fulfill these requirements.

PREREQUISITE GRADE REQUIREMENT

Computer science course entry requires a grade of C- or better in each prerequisite course. A minimum 2.40 CGPA is required for 200, 300, and 400 division computing courses.

CO-OPERATIVE EDUCATION

Combines work experience with academic studies—all students are encouraged to apply. Co-op does not count towards academic credits. Co-op is not mandatory; however, three work terms must be successfully completed in order to obtain an undergraduate degree with a co-op designation. For more information about Co-op, please see: http://www.sfu.ca/coop/programs/cmpt/prospective.html.

ADVISING

Academic advising is available for students in the Faculty of Applied Sciences. Please see the FAS advising page (https://www.sfu.ca/fas/current-student/advising.html) to book an appointment and view drop-in times. Please bring a copy of your advising transcript with you to the advising session. Alternatively, you can email your questions to asadvise@sfu.ca.